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Low Level Design (LLD)

Your Project Name

Shopping Kart

Your Name

Kumar Sarvesh

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**Document Version Control**

| **Date Issued** | **Version** | **Description** | **Author** |
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| **Date** | 1.2 | Added Navigation | sarvesh |
| **Date** | 1.3 | Added Products | sarvesh |
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| **Date** | 1.5 | Added user I/O flowchart | Name |
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| **Date** | 1.7 | Added dataset overview and updated user I/O flowchart. | Name |

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**Abstract**

Introducing Shopping Kart, your one-stop solution for a seamless online shopping experience. Shopping Kart is a user-friendly e-commerce platform that offers a wide range of products from various retailers, all in one place. With an intuitive interface and powerful features, Shopping Kart makes online shopping convenient, efficient, and enjoyable.

**1 Introduction**

**1.1 Why this Low-Level Design Document?**

The purpose of this document is to present a detailed description of the Deep EHR System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of

the system and will be proposed to the higher management for its approval.

The main objective of the project is to predict if a person can get a chronic disease in his/her future based on the EHR. EHR stands for Electronic Health Record, EHR is nothing but a dataset of medical history of the patients.

EHRs are a vital part of health IT and can:

● Contain a patient’s medical history, diagnoses, medications, treatment plans, immunization dates, allergies, radiology images, and laboratory and test results ● Allow access to evidence-based tools that providers can use to make decisions about a patient’s care

● Automate and streamline provider workflow

An electronic health record (EHR) contains patient health information, such as:

● Patient demographics

● Progress notes

● Vital signs

● Medical histories

● Diagnoses

● Medications

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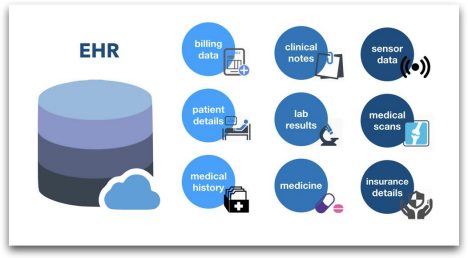
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● Immunization dates

● Allergies

● Radiology images

● Lab and test results

This project shall be delivered in two phases:

Phase 1: All the functionalities with PyPi packages.

Phase2: Integration of UI to all the functionalities.

**1.2 Scope**

This software system will be a Web application This system will be designed to detect the diseases at earliest for better disease management, improved interventions, and more efficient health-care resource allocation using previous EHR records available. More

specifically, Early detection of any preventable diseases is important for better disease management. This system is designed to predict the diseases from patient information such as demographics, disease history, lab results, procedures and medications.

**1.3 Constraints**

We will only be selecting a few of the chronic diseases.

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**1.4 Risks**

Document specific risks that have been identified or that should be considered.

**1.5 Out of Scope**

Delineate specific activities, capabilities, and items that are out of scope for the project.

**2 Technical specifications**

**2.3 Logging**

We should be able to log every activity done by the user.

● The System identifies at what step logging required

● The System should be able to log each and every system flow.

● Developers can choose logging methods. You can choose database logging/ File logging as well.

● System should not be hung even after using so many loggings. Logging just because we can easily debug issues so logging is mandatory to do.

**2.4 Database**

No database is used, instead used localstorage to store the data

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**2.5 Deployment**

1. Netlify

**3 Technology stack**

| **Front End** | HTML/CSS/JS/React |
| --- | --- |
| **Backend** | none |
| **Database** | none |
| **Deployment** | netlify |

**7 Exceptional scenarios**

| **Step** | **Exception** | **Mitigation** | **Module** |
| --- | --- | --- | --- |
| **Date** | 1.1 | First Draft |  |
| **Date** | 1.2 | Added Workflow chart | Name |

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**8 Test cases**

| **Test**  **case** | **Steps to perform test case** | **Module** | **Pass/Fail** |
| --- | --- | --- | --- |
|  |  |  |  |

**9 Key performance indicators (KPI)**

● Time and workload reduction using the EHR model.

● Comparison of accuracy of model prediction and doctor’s prediction.

● Number of times a patient visits the hospital.

● Time between symptom onset and detection of illness/visit to hospital.

● Immunity of patient (based on previous illnesses).

● Vaccines the patient has taken.

● Length of stays in hospital.

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